

# BPA FACTS

Unless otherwise noted, information is for fiscal year 2001.

## Profile

The Bonneville Power Administration is a federal agency, under the U.S. Department of Energy, that markets wholesale electrical power and operates and markets transmission services in the Pacific Northwest. The power comes from 31 federal hydro projects, one nonfederal nuclear plant and several other nonfederal power plants. The hydro projects and the electrical system are known as the Federal Columbia River Power System. About 45 percent of the electric power used in the Northwest comes from BPA. BPA's transmission system accounts for about three-quarters of the region's high-voltage grid, and includes major transmission links with other regions.

BPA is a self-funding agency, which pays for its costs through power and transmission sales. Both power and transmission are sold at cost, and BPA repays any borrowing from the U.S. Treasury with interest.

BPA's customers include publicly owned and investor-owned utilities, as well as some large industries. BPA also sells or exchanges power with utilities in Canada and the western United States.

Revenues BPA earns help it fulfill public responsibilities that include low-cost and reliable power and investments in energy conservation and renewable resources. BPA also funds the region's efforts to protect and rebuild fish and wildlife populations in the Columbia River Basin.

## General Information

|                                   |            |
|-----------------------------------|------------|
| BPA established                   | 1937       |
| Service area size (square miles)  | 300,000    |
| Pacific Northwest population      | 11,148,341 |
| Transmission line (circuit miles) | 15,277     |
| BPA-owned substations             | 285        |
| Employees (staff years)           | 2,878      |

## BPA service area

Oregon, Washington, Idaho, western Montana and small portions of Wyoming, Nevada, Utah, California and eastern Montana.

## 13 federally recognized tribes & reservations in the Columbia River Basin

Burns-Paiute, Nez Perce, Umatilla, Coeur D'Alene, Salish-Kootenai, Yakama, Colville, Shoshone-Bannock, Warm Springs, Kalispel, Shoshone-Paiute, Kootenai and Spokane.

## Other facts

- About 80 percent of the power BPA sells is hydroelectric.
- BPA's owns and operates more than three-fourths of the high-voltage transmission grid in the Pacific Northwest.
- BPA has spent more than \$6 billion to support Northwest fish and wildlife recovery which includes losses of nearly \$3.5 billion in energy sales due to fish operations.
- Since 1981, BPA has saved nearly 800 average megawatts of energy through its conservation programs.

## Mission Statement

BPA exists to meet its public responsibilities through commercially successful businesses.

## Public Responsibilities

- Assure an adequate, economical, efficient and reliable power supply to the Pacific Northwest.
- Ensure transmission access, public preference and regional preference to customers.
- Fulfill environmental and social obligations, such as protection and enhancement of fish and wildlife and leadership in conservation and renewables development.
- Preserve and balance the economic and environmental benefits of the Columbia River federal hydropower system (as one of the key river managers).

## 2001 Financial Highlights <sup>1/</sup> (\$000)

### Operating Results

|                                                                  |                     |
|------------------------------------------------------------------|---------------------|
| Revenues                                                         | \$ 4,230,792        |
| SFAS 133 mark-to-market                                          | <u>47,877</u>       |
| Total operating revenues                                         | 4,278,669           |
| Total operating expenses                                         | <u>4,115,670</u>    |
| Net operating revenues                                           | 162,999             |
| Net interest expense                                             | <u>331,909</u>      |
| Net (expenses) revenues before the cumulative effect of SFAS 133 | (168,910)           |
| Cumulative effect of SFAS 133                                    | <u>(168,491)</u>    |
| Net (expenses) revenues                                          | <u>\$ (337,401)</u> |

1/ For the Federal Columbia River Power System.

## Balance Sheet (as of Sept. 30, 2001)

### Assets:

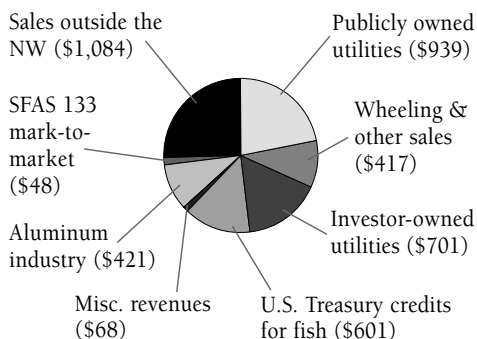
|                                   |                      |
|-----------------------------------|----------------------|
| Federal generation & transmission | \$ 8,345,519         |
| Non-federal projects              | 6,171,949            |
| Trojan decommissioning cost       | 69,221               |
| Conservation                      | 444,021              |
| Fish and wildlife                 | 146,354              |
| Current assets                    | 1,327,482            |
| Other assets                      | <u>265,984</u>       |
| Total assets                      | <u>\$ 16,770,530</u> |

### Capitalization & liabilities:

|                                    |                      |
|------------------------------------|----------------------|
| Accumulated net expense            | \$ (221,151)         |
| Federal appropriations             | 4,647,017            |
| Capitalization adjustment          | \$ 2,259,756         |
| Long-term debt                     | 2,582,542            |
| Non-federal projects debt          | 5,954,490            |
| Trojan decommissioning reserve     | 57,221               |
| Current liabilities                | 870,329              |
| Deferred credits                   | <u>620,326</u>       |
| Total capitalization & liabilities | <u>\$ 16,770,530</u> |

## 2001 Sources of Revenue

(\$ in millions)



## BPA Rates

### Wholesale power rates<sup>2/</sup> (10/1/02-3/30/03)

|                                             |                |
|---------------------------------------------|----------------|
| Average Priority Firm (shaped, undelivered) | 3.21 cents/kWh |
| Average Priority Firm (flat, undelivered)   | 2.84 cents/kWh |
| Residential Load (flat, undelivered)        | 2.84 cents/kWh |
| Priority Firm Exchange (flat, undelivered)  | 2.84 cents/kWh |

<sup>2/</sup> Shaped and flat products are different. For a shaped product, BPA provides power to meet the moment-to-moment variability in load within the BPA customer's system. For a flat product, or block, there is no variation in the amount of power BPA provides to the customer. These rates do not include the cost of transmission.

### Transmission rates<sup>3/</sup> (FY 2002-2003)

#### Network rates:

|         |                |
|---------|----------------|
| Firm    | \$14.916/kW/yr |
| Nonfirm | .358 cents/kWh |

#### Southern Intertie rates:

|         |                |
|---------|----------------|
| Firm    | \$16.668/kW/yr |
| Nonfirm | .400 cents/kWh |

<sup>3/</sup> Includes the two required Ancillary Services. All short-term firm and nonfirm rates are downwardly flexible.

## Generation (CY 2001)

|                                                            |           |
|------------------------------------------------------------|-----------|
| Average hydro generation                                   | 6,195 aMW |
| Average total generation                                   | 8,343 aMW |
| 60-min. hydro peak generation                              | 12,971 MW |
| 60-min. total peak generation                              | 15,700 MW |
| All-time 60-min. total peak generation record (March 1999) | 18,238 MW |

## BPA Resources<sup>4/</sup>

(for OY 2002 under 1937 water conditions)

### Sustained peak capacity 17,462 MW

hydro: 13,898 MW (80%)  
 nuclear: 915 MW (5%)  
 firm contracts & other resources: 2,649 MW (15%)  
**Firm energy (12-month avg.) 9,871 aMW**  
 hydro: 6,647 aMW (67%)  
 nuclear: 972 aMW (10%)  
 firm contracts & other resources: 2,318 less 65 adjustments 2,253 aMW (23%)

## Regional Resources<sup>4/</sup>

(for OY 2002 under 1937 water conditions)

### Sustained peak capacity 34,258 MW

hydro: 23,773 MW (70%)  
 coal: 3,566 MW (10%)  
 nuclear: 915 MW (3%)  
 imports: 2,751 MW (8%)  
 combustion turbines: 1,377 MW (4%)  
 non-utility generation: 1,090 MW (3%)  
 cogeneration & other resources: 787 MW (2%)  
**Firm energy (12-month avg.) 20,491 aMW**  
 hydro: 11,283 aMW (55%)  
 coal: 3,920 aMW (19%)  
 nuclear: 972 aMW (5%)  
 imports: 1,699 aMW (8%)  
 combustion turbines: 636 aMW (3%)  
 non-utility generation: 1,199 aMW (6%)  
 cogeneration & other resources: 780 aMW (4%)

<sup>4/</sup> Forecast figures from BPA's 2000 Pacific Northwest Loads & Resources Study. The values listed have been reduced to take into account capacity and energy adjustments. Capacity adjustments include forced outage reserves, spinning reserves, hydro maintenance and transmission loss reductions. Energy adjustments include hydro maintenance and transmission losses reductions.



## Federal Hydro Projects <sup>5/</sup>

| Name                   | River, State     | In Service         | Max. Capacity    |
|------------------------|------------------|--------------------|------------------|
| Albeni Falls           | Pend Oreille, ID | 1955               | 49 MW            |
| Anderson Ranch         | Boise, ID        | 1950               | 40 MW            |
| Big Cliff              | Santiam, OR      | 1954               | 21 MW            |
| Black Canyon           | Payette, ID      | 1925               | 10 MW            |
| Boise River Diversion  | Boise, ID        | 1912 <sup>6/</sup> | 2 MW             |
| Bonneville             | Columbia, OR/WA  | 1938               | 1,224 MW         |
| Chandler               | Yakima, WA       | 1956               | 12 MW            |
| Chief Joseph           | Columbia, WA     | 1955               | 2,614 MW         |
| Cougar                 | McKenzie, OR     | 1964               | 28 MW            |
| Detroit                | Santiam, OR      | 1953               | 115 MW           |
| Dexter                 | Willamette, OR   | 1955               | 17 MW            |
| Dworshak               | Clearwater, ID   | 1973               | 465 MW           |
| Foster                 | Santiam, OR      | 1968               | 23 MW            |
| Grand Coulee           | Columbia, WA     | 1941               | 7,141 MW         |
| Green Peter            | Santiam, OR      | 1967               | 92 MW            |
| Green Springs          | Emigrant Crk, OR | 1960               | 18 MW            |
| Hills Creek            | Willamette, OR   | 1962               | 34 MW            |
| Hungry Horse           | Flathead, MT     | 1952               | 428 MW           |
| Ice Harbor             | Snake, WA        | 1961               | 693 MW           |
| John Day               | Columbia, OR/WA  | 1968               | 2,480 MW         |
| Libby                  | Kootenai, MT     | 1975               | 605 MW           |
| Little Goose           | Snake, WA        | 1970               | 930 MW           |
| Lookout Point          | Willamette, OR   | 1954               | 138 MW           |
| Lost Creek             | Rogue, OR        | 1977               | 56 MW            |
| Lower Granite          | Snake, WA        | 1975               | 930 MW           |
| Lower Monumental       | Snake, WA        | 1969               | 930 MW           |
| McNary                 | Columbia, OR/WA  | 1953               | 1,120 MW         |
| Minidoka               | Snake, ID        | 1909               | 28 MW            |
| Palisades              | Snake, ID        | 1957               | 176 MW           |
| Roza                   | Yakima, WA       | 1958               | 13 MW            |
| The Dalles             | Columbia, OR/WA  | 1957               | 2,080 MW         |
| <b>Total (31 dams)</b> |                  |                    | <b>22,512 MW</b> |

Owned and operated by the U.S. Army Corps of Engineers (21 dams)

Owned and operated by the Bureau of Reclamation (10 dams).

<sup>5/</sup> List does not include Teton Dam, which ruptured in 1976.

<sup>6/</sup> Currently undergoing a major upgrade.

## Transmission System

| Operating voltage  | Circuit miles     |
|--------------------|-------------------|
| 1,000 kV .....     | 266 <sup>7/</sup> |
| 500 kV .....       | 4,521             |
| 345 kV .....       | 570               |
| 287 kV .....       | 227               |
| 230 kV .....       | 5,279             |
| 161 kV .....       | 46                |
| 138 kV .....       | 69                |
| 115 kV .....       | 3,748             |
| below 115 kV ..... | 552               |
| <b>Total .....</b> | <b>15,277</b>     |

<sup>7/</sup> BPA's portion of the PNW/PSW direct-current intertie. The total length of this line from The Dalles, Ore., to Los Angeles is 846 miles.

## Fish & Wildlife Investments

(\$ in millions)

|                                              | FY 2001          |
|----------------------------------------------|------------------|
| BPA F&W program expense                      |                  |
| (does not include \$27 million capital)      | \$ 101.1         |
| F&W expenses of other entities               | \$ 42.5          |
| Repayment for capital investments            | <u>\$ 77.1</u>   |
| Program expenses subtotal <sup>8/</sup>      | \$ 220.7         |
| Hydro operations:                            |                  |
| Power purchases                              | \$1,389.6        |
| Foregone power sales                         | \$ 115.9         |
| Hydro operations subtotal                    | <u>\$1505.5</u>  |
| <b>Total F&amp;W Investments for FY 2001</b> | <b>\$1,726.1</b> |

<sup>8/</sup> For comparative purposes, the six-year average for these three categories under the MOA is \$252 million a year.

These numbers reflect a Memorandum of Agreement that went into effect in fiscal 1996. The MOA stabilizes BPA's fish and wildlife spending through 2001. It includes a six-year funding plan averaging \$252 million per year for fish and wildlife programs, plus the costs of hydro

operations for fish to meet the objectives of the 1995 biological opinions. The MOA was negotiated between BPA, the Corps of Engineers, the Bureau of Reclamation, the U.S. Fish and Wildlife Service, and the National Marine Fisheries Service in consultation with the Northwest Power Planning Council and Columbia Basin tribes.

Under the Memorandum of Agreement, BPA makes \$127 million a year available in direct program funding. Any funds not spent are carried over with interest. Of the \$127 million, \$100 million is accounted as expense and \$27 million is capital.

The program expense of \$101.1 million only represents bills received in 2001 for the expense portion of the budget and thus greatly understates the overall level of the program, which had a 2000 budget in excess of \$127 million.

## Conservation

(\$ in millions)

| Total BPA expenses      | FY 2001<br>\$12 | Total <sup>9/</sup><br>\$1,792 |
|-------------------------|-----------------|--------------------------------|
| <b>Megawatts saved:</b> |                 |                                |
| Residential programs    | 3.6 aMW         | 184 aMW                        |
| Commercial programs     | .5 aMW          | 121 aMW                        |
| Industrial programs     | .2 aMW          | 90 aMW                         |
| Agricultural programs   | 4.0 aMW         | 25 aMW                         |
| Aluminum smelters       | 0 aMW           | 96 aMW                         |
| Multi-sector programs   | <u>0 aMW</u>    | <u>105 aMW</u>                 |
| Programs subtotal       | 8.2 aMW         | 621 aMW                        |
| Improved building codes | <u>12.4 aMW</u> | <u>163 aMW</u>                 |
| <b>Total aMW saved</b>  | <b>20.6 aMW</b> | <b>784 aMW</b>                 |

<sup>9/</sup> Cumulative total since 1981.

## Major Federal Laws under which BPA Operates

- Bonneville Project Act, Aug. 20, 1937
- Flood Control Act, June 5, 1944
- Pacific Northwest Regional Preference Act, Aug. 31, 1964
- National Environmental Policy Act, Jan. 1, 1970
- Federal Columbia River Transmission System Act (Self-Financing Act), Oct. 18, 1974
- Pacific Northwest Electric Power Planning and Conservation Act (Northwest Power Act), Dec. 5, 1980
- National Energy Policy Act, Oct. 22, 1992

## Senior Executives

Steve Wright, *Administrator*

Steve Hickok, *Deputy Administrator*

Marg Nelson, *Acting Chief Operating Officer*

Terry Esvelt, *Senior Vice President,*

*Workforce/Workplace*

Mark Maher, *Senior Vice President,*  
*Transmission Business Line*

Paul Norman, *Senior Vice President,*  
*Power Business Line*

Randy Roach, *Acting Senior Vice President,*  
*General Counsel*

## Points of Contact

### General BPA Offices & Web Sites

**BPA Headquarters** • 905 N.E. 11th Ave. • P.O. Box 3621  
• Portland, OR 97208 • (503) 230-3000 • Web Site <http://www.bpa.gov>

**Public Information Center** • 905 N.E. 11th Ave.

• P.O. Box 3621 • Portland, OR 97208 • (503) 230-7334 • 1-800-622-4520

**Washington, D.C. Office** • Forrestal Bldg., Room 8G-061  
• 1000 Independence Ave., S.W. • Washington, DC 20585  
• (202) 586-5640

**Crime Witness Program** • 1-800-437-2744 • To report crimes to BPA property or personnel.

### Transmission Business Line's Regional Offices

**TBL Headquarters** • P.O. Box 491

• Vancouver, WA 98666-0491 • (360) 418-2000

**Eugene Region** • 86000 Hwy. 99 S.

• Eugene, OR 97405 • (541) 465-6991

**Idaho Falls Region** • 1350 Lindsay Blvd.

• Idaho Falls, ID 83402 • (208) 524-8770

**Olympia Region** • 5240 Trosper St. S.W.

• Olympia, WA 98512-5623 • (360) 704-1600

**Redmond Region** • 3655 W. Highway 126

• Redmond, OR 97756 • (541) 548-4015

**Snohomish Region** • 914 Ave. D

• Snohomish, WA 98290 • (360) 568-4962

**Spokane Region** • 2410 E. Hawthorne Rd.

• Mead, WA 99021 • (509) 358-7376

**Walla Walla Region** • 1520 Kelly Place

• Walla Walla, WA 99362 • (509) 527-6238

### Power Business Line's Customer Service Centers

**Bend CSC** • 1011 S.W. Emkay Dr. Suite 211

• Bend, OR 97702 • (541) 318-1680

**Burley CSC** • 2700 Overland

Burley, ID 83318 • (208) 678-9481

**Eastern Area CSC** • 707 W. Main St. Suite 500

Spokane, WA 99201-0641 • (509) 358-7409

**Idaho Falls CSC** • 1350 Lindsay Blvd.

• Idaho Falls, ID 83402 • (208) 524-8750

**Richland CSC** • Kootenai Bldg., Room 215 • North Power

Plant Loop • Richland, WA 99352 • (509) 372-5751

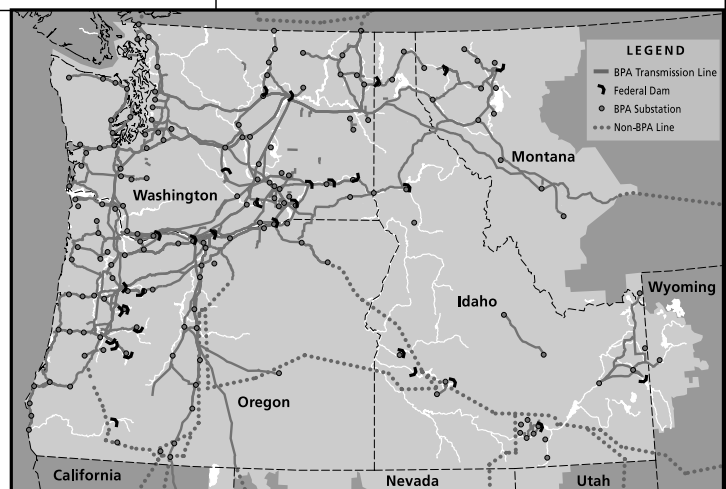
**Seattle CSC** • 909 First Ave. Suite 380

• Seattle, WA 98104-3636 • (206) 220-6759

**Western Area CSC** • 905 N.E. 11th Ave.

• Portland, OR 97232 • (503) 230-7597

## Transmission System and Federal Dams



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